

## Claims

Claim 1. A fuel cell apparatus, comprising; a fuel cell for generating electricity by supplying a fuel pole with fuel gas and an oxidant pole with air, a washing liquid tank, disposed in a supply passage of the air, for reserving 5 washing liquid, and a means for periodically replacing the washing liquid reserved in said washing liquid tank.

Claim 2. The fuel cell apparatus according to claim 1, wherein the washing liquid is water, or washing liquid of organic compound.

Claim 3. The fuel cell apparatus according to claim 1 or 2, wherein said 10 washing liquid tanks are disposed in plurality in series on the air supply passage, and comprises a means for replacing periodically at least the washing liquid reserved in the washing liquid tank arranged upstream.

Claim 4. The fuel cell apparatus according to claim 3, wherein a plurality 15 of washing liquid tanks reserving the same washing liquid are disposed differently from each other in the liquid level, and a lower washing liquid tank is supplied with the washing liquid from an upper washing liquid tank by the level difference.

Claim 5. The fuel cell apparatus according to any one of claims 1 to 4, wherein the water to be supplied to the washing liquid tank using water as the 20 washing liquid, is a treated water.

Claim 6. A fuel cell apparatus, comprising; a fuel cell for generating electricity by supplying a fuel pole with fuel gas and an oxidant pole with air, a water tank for reserving cooling water of the fuel cell, a washing liquid tank, disposed in a supply passage of the air, for reserving washing liquid, and a 25 means for replacing the washing liquid reserved in said washing liquid tank.

Claim 7. The fuel cell apparatus according to claim 1 or 6, wherein said means for replacing the washing liquid is operated every fixed time.

Claim 8. The fuel cell apparatus according to claim 1 or 6, wherein said means for replacing the washing liquid is operated according to the dirtiness of washing liquid.

Claim 9. The fuel cell apparatus according to claim 6, comprising a  
5 means for supplying said washing tank with water in said water tank.

Claim 10. The fuel cell apparatus according to claim 6, wherein the air is supplied to said oxidant pole, after impurities in the air in said washing liquid tank are removed, and the air is humidified in said water tank.